

WHAT IS CLAIMED IS:

*Sub A)* 1. A communication method for providing information in an intelligent network including a transmission layer having a user terminal and a switching system connected through a first network and an intelligent layer connected to said transmission layer through a second network for issuing a connection command of a line to said transmission layer, comprising:

a step of entering by a user a connection number of the user terminal, a connection number of an information provider terminal and a time to receive the information providing service into a user database provided in said transmission layer;

a step of reading data registered in said user database into a service control database provided in said intelligent layer;

a step of collating a current time to the time to receive the service read in said service control database by a timer circuit provided in said intelligent layer;

a step of automatically connecting said user terminal to said information provider terminal when a service start time is reached as a result of the collation;

a step of collating the current time to a service end time by said timer circuit; and

a step of automatically disconnecting the connection between said user terminal and said

~~information provider terminal when the service end time is reached as a result of the collation.~~

2. A communication method for providing information in an intelligent network according to Claim 1 wherein said step of reading the data registered in said user database includes a step of sorting the data in the order of the service start time.

*SUP-A* ~~3.~~ A communication method for providing information in an intelligent network comprising:

a step of entering by a user a connection number of the user terminal, a connection number of an information provider terminal and a time to receive the information providing service into a user database provided in said transmission layer;

a step of reading data registered in said user database into a service control database provided in said intelligent layer;

a step of collating a current time to a service start time by a timer circuit provided in said intelligent layer;

a step of automatically connecting said user terminal to said information provider terminal when a service start time is reached as a result of the collation;

a step of collating the current time to a service end time by said timer circuit; and

a step of automatically disconnecting the connection between said user terminal and said

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information provider terminal when the service end time is reached as a result of the collation.

4. A communication method for providing information in an intelligent network including a transmission layer having a user terminal and a switching system connected through a first network and an intelligent layer connected to said transmission layer through a second network for issuing a connection command of a line to said transmission layer, comprising:

a step of informing by a user to a network provider a connection number of the user terminal, a connection number of an information provider terminal and a time to receive the information providing service into a user database provided in said transmission layer;

a step of registering by said network provider in a service control database provided in said intelligent layer the connection number of said user terminal, the connection number of said information provider and the time to receive the service;

a step of collating a current time to a service start time registered in said service control database by a timer circuit provided in said intelligent layer;

a step of automatically connecting said user terminal to said information provider terminal when a service start time is reached as a result of the collation;

a step of collating the current time to a service end time by said timer circuit; and

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a step of automatically disconnecting the connection between said user terminal and said information provider terminal when the service end time is reached as a result of the collation.

5. A communication method for providing information in an intelligent network according to Claim 4 wherein said step of registering into said service control database includes a step of sorting the data in the order of the service start time.

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6. A communication apparatus for providing information in an intelligent network comprising:

a user terminal connected to a switching system;

first control means provided in a transmission layer including a user database accessible by a user and having a connection number of said user terminal, a connection number of an information provider terminal and a time to receive the service registered therein;

second control means including a service control database provided in an intelligent layer and containing data of said user database, means for collating a current time to the time to receive the service by referring said service control database, and means for automatically commanding to said switching system the connection of said user terminal and said information provider terminal when a service start time is reached as a result of the collation by said collation means and automatically disconnecting said connection when a

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service end time is reached; and

third control means provided in said intelligent layer and connected to a network provider terminal and including a service management database for controlling the issuance of a connection command to a subsidiary node by said second control means.

7. A communication apparatus for providing information in an intelligent network according to Claim 6 wherein said service control database includes a memory storing the data in said user database sorted in the order of the service start time.

8. A communication terminal comprising:  
means connected to a switching system for functioning as a telephone set;  
a database having a connection number of an information provider terminal and a time to receive an information providing service recorded therein;  
means for collating a current time to the time to receive the service; and  
means for automatically commanding to said switching system the connection with said information provider terminal when a service start time is reached as a result of the collation by said collation means and automatically commanding to said switching system the disconnection of said connection when a service end time is reached.

9. A communication apparatus for providing information in an intelligent network comprising:

a communication terminal including means connected to a switching system for functioning as a telephone set, a database having a connection number of an information provider terminal and a time to receive an information providing service recorded therein, means for collating a current time to the time to receive the service, and means for automatically commanding to said switching system the connection with said information provider terminal when a service start time is reached as a result of <sup>a</sup>~~the~~ collation by said collation means and automatically commanding to said switching system the disconnection of said connection when a service end time is reached;

a switching system connected to said communication terminal;

first control means provided in an intelligent layer and including a database having a number to which a charge is to be charged and the connection number of the information provider terminal registered therein; and

second control means provided in said intelligent layer and connected to a network provider terminal and including a service management database for controlling <sup>an</sup> ~~the~~ issuance of a connection command to a subsidiary node by said first control means.

10. A communication apparatus for providing information in an intelligent network comprising:

a user terminal connected to a switching system;

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first control means including a service control database provided in an intelligent layer and having a connection number of said user terminal, a connection number of an information provider terminal and a time to receive the information providing service recorded therein, means for collating a current time to the time to receive the service, and means for automatically commanding to said switching system the connection of said user terminal and said information provider terminal when a service start time is reached as a result of the collation by said collation means and automatically commanding the disconnection of said connection when a service end time is reached; and

second control means provided in said intelligent layer and connected to a network provider terminal and including a service management database for controlling the issuance of a connection command to a subsidiary node by said first control means.

11. A communication apparatus for providing information in an intelligent network according to Claim 10  
*a* wherein said service control <sup>database</sup> ~~network~~ includes a table having the connection number of said user terminal, the connection number of said information provider terminal and the time to receive the information providing service registered therein and sorted in the order of the service start time.

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